

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 July 2004 (01.07.2004)

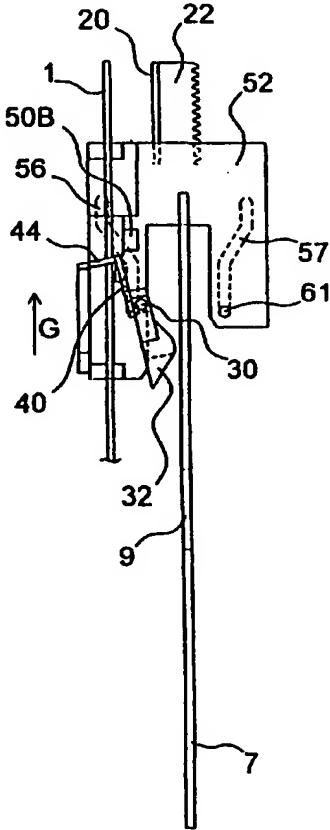
PCT

(10) International Publication Number
WO 2004/055805 A1

- (51) International Patent Classification⁷: G11B 17/04 COSTEMORE D'ARC, Stéphane [FR/BE]; rue Emile François 40, B-1474 Ways (BE).
- (21) International Application Number: PCT/BE2003/000215 (74) Agents: OVERATH, Philippe et al.; Cabinet Bede S.A., Boulevard Lambermont 140, B-1030 Brussels (BE).
- (22) International Filing Date: 10 December 2003 (10.12.2003) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
- (26) Publication Language: English
- (30) Priority Data: 2002/0736 18 December 2002 (18.12.2002) BE
- (71) Applicant (*for all designated States except US*): STAAR SOCIETE ANONYME [BE/BE]; Chaussée de Roodebeek 137-143, B-1200 Bruxelles (BE).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): D'ALAYER de

[Continued on next page]

(54) Title: TRANSFER DEVICE FOR INFORMATION CARRIERS



(57) Abstract: The device ensures transfer of information carriers of different dimensions thanks to a single loading device including detection means (32) associated to linking means (40). Upon the insertion of an information carrier, the linking means (40) cooperates with a projection (50A, 50B) set in relation with the size of the inserted information carrier, this projection being supported by a slider (52) actuating clamping and driving means to ensure the setting of the inserted information carrier in its operative position. Thus, the synchronization between these clamping and driving means is made in relation with the size of said carrier.



SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*

1 / 4

FIG.1

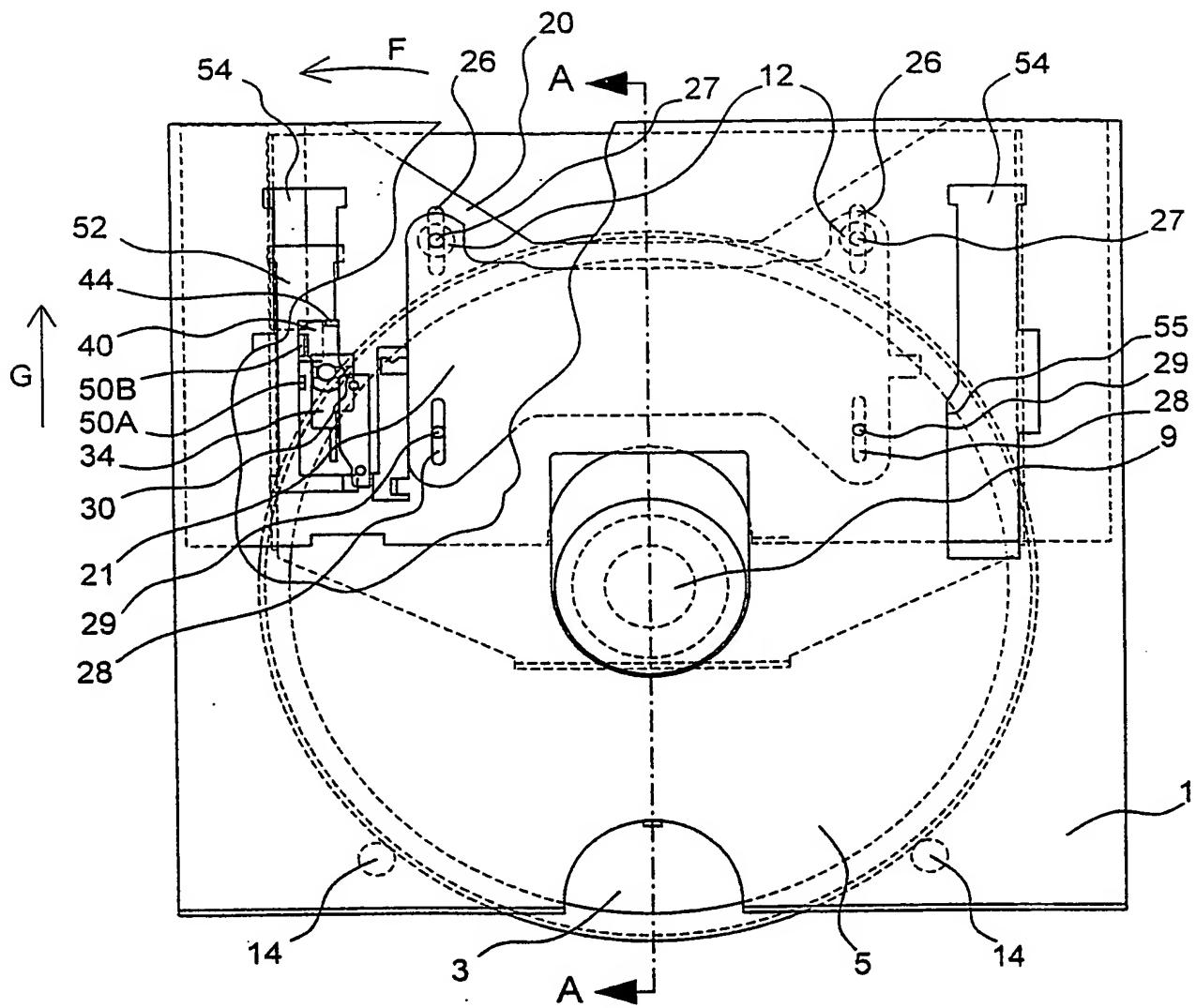


FIG.7

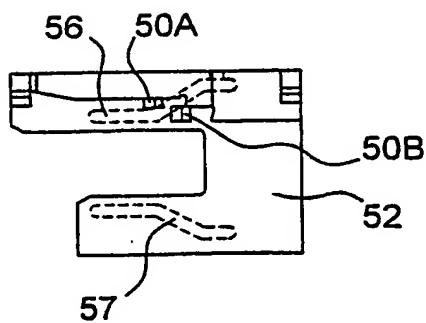
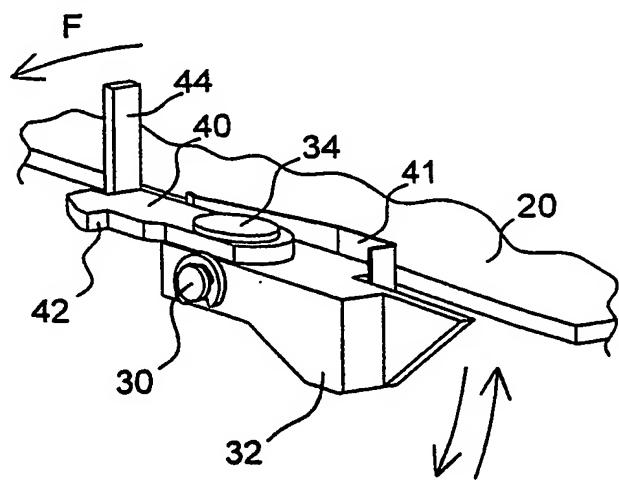


FIG.8



2 / 4

FIG.1A

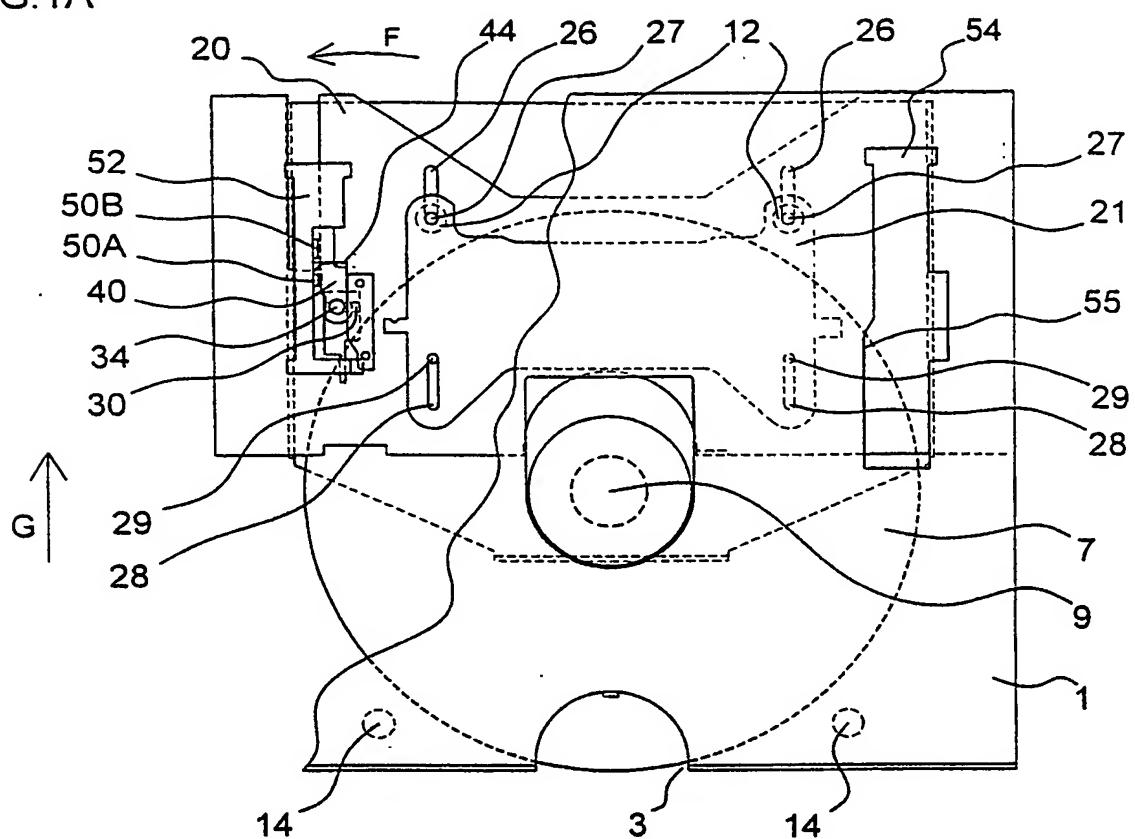


FIG.2

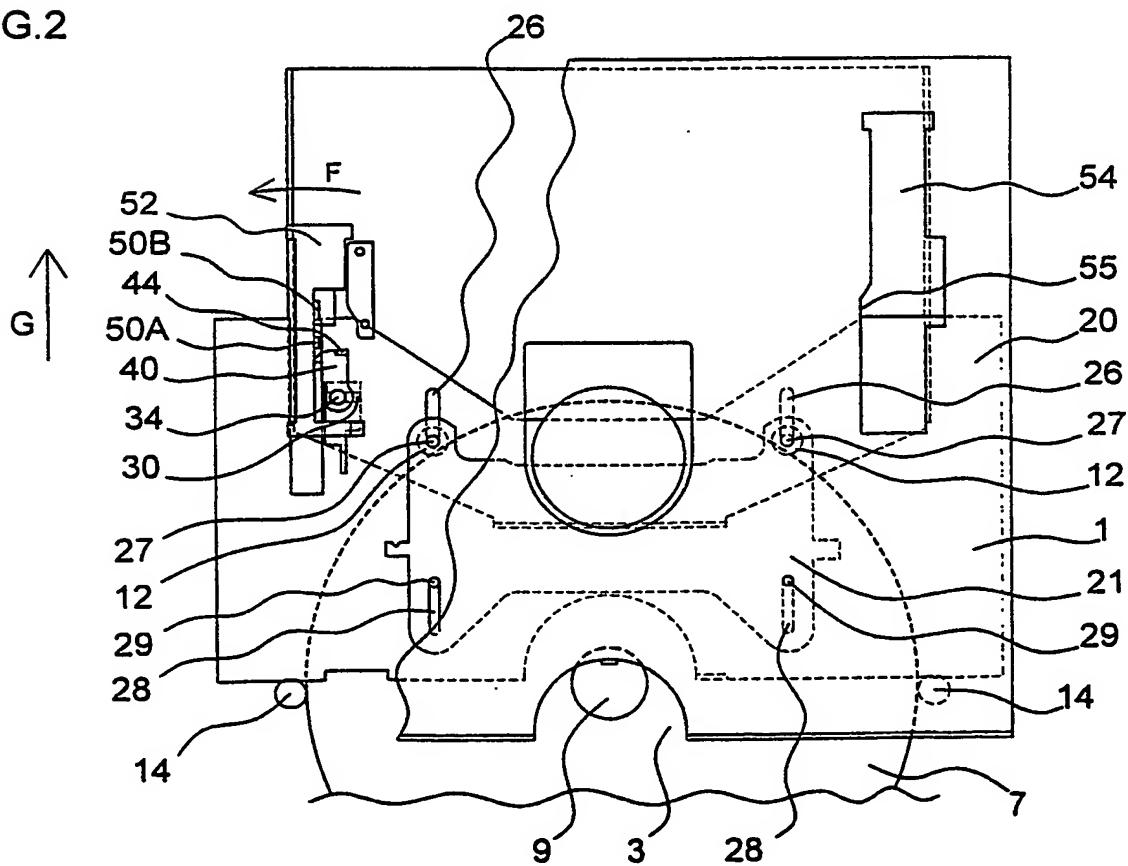


FIG.4A

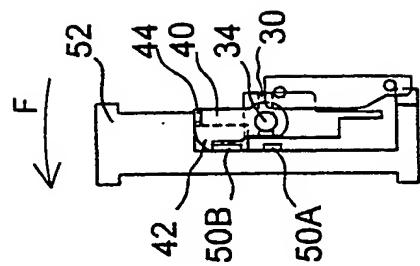


FIG.4

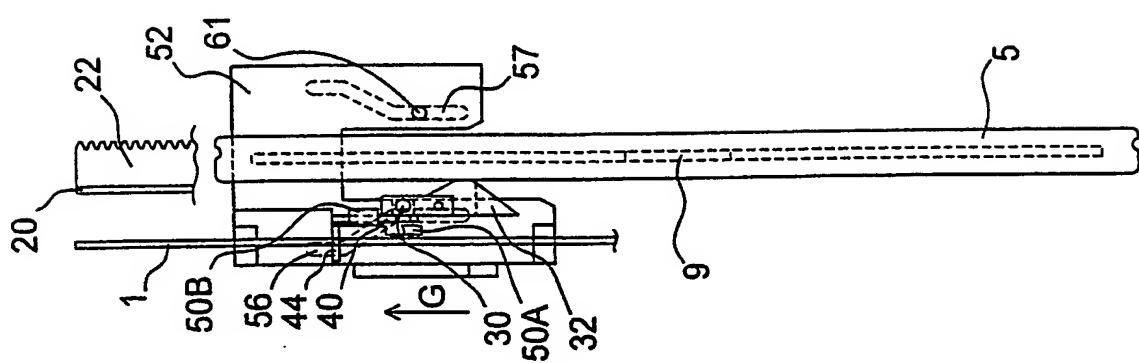
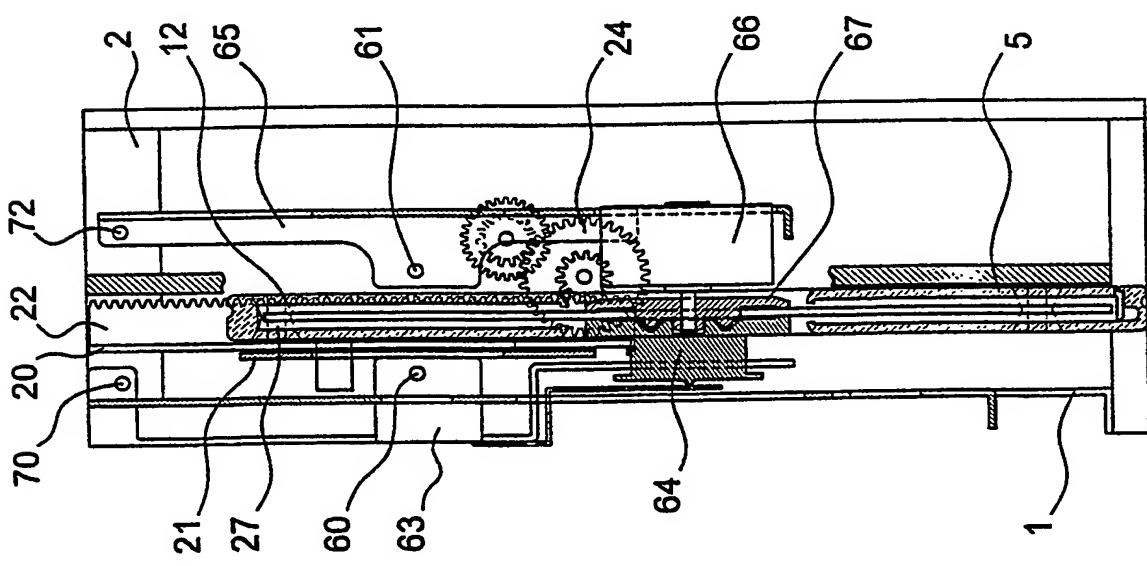


FIG.3



4 / 4

FIG.6A

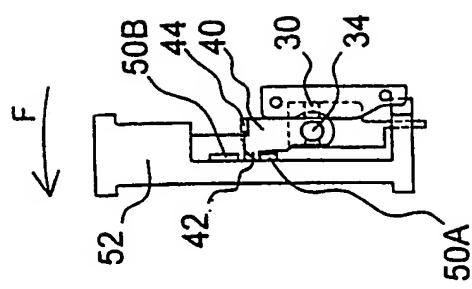


FIG.6

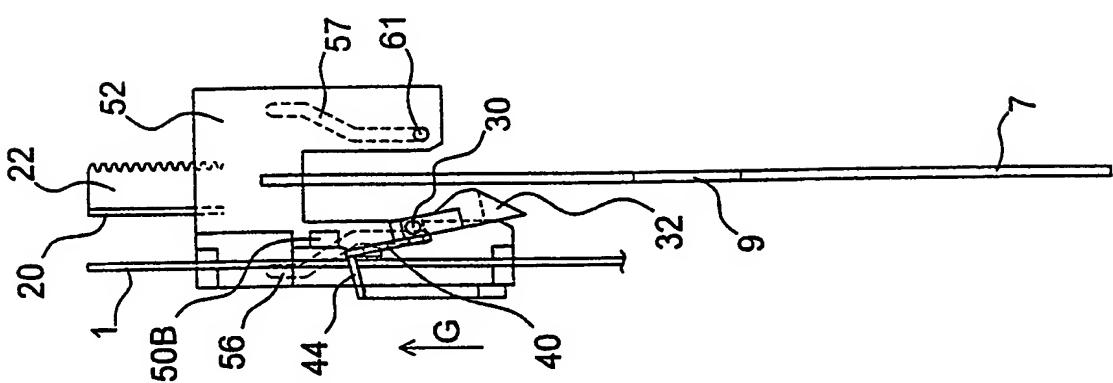
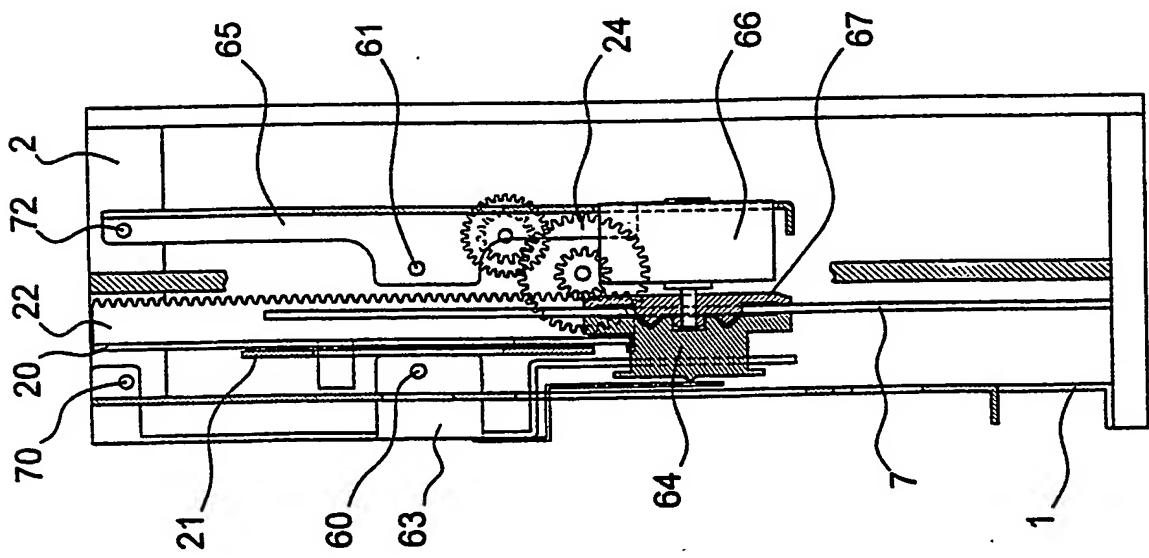


FIG.5



INTERNATIONAL SEARCH REPORT

Application No
PCT/EP 03/00215

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B17/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/044520 A1 (KABASAWA HIDETOSHI) 18 April 2002 (2002-04-18) paragraph '0056! - paragraph '0064!; figures 1-3	1
A	US 6 259 667 B1 (HUANG AN-YING ET AL) 10 July 2001 (2001-07-10) column 4, line 1 - column 5, line 48; figures 1-6	1
A	US 2001/001606 A1 (HORIE FUMIO) 24 May 2001 (2001-05-24) abstract; figures 18,33,35	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

26 March 2004

01/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Sozzi, R

INTERNATIONAL SEARCH REPORT
Information on patent family members

Applicant's name	Application No
PCT/BT	03/00215

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 2002044520	A1	18-04-2002	JP 2002124005 A JP 2002123999 A CN 1355531 A TW 517228 B	26-04-2002 26-04-2002 26-06-2002 11-01-2003
US 6259667	B1	10-07-2001	TW 424225 B JP 2000293912 A	01-03-2001 20-10-2000
US 2001001606	A1	24-05-2001	JP 11185346 A CN 1230748 A ,C TW 408299 B	09-07-1999 06-10-1999 11-10-2000